United States Is the Greatest Radium Producing Country In the Entire World

_By___ Rene Bache

Deposits in Colorado, Long Neglected, Are Being Worked; New Process Used to Extract the Valuable Ore.

est radium bearing district in the world.

The foreign manufacturers of radium during past years have quietly bought up all the carnotite they could get hold of and have shipped it abroad, where the radium has been extracted from it by laboratory methods more or less accret. In this way Colorado has been furnishing annually three times as much radium as all the rest of the world put together.

The rocky stratum which centains the postets of the radium bearing ore is far down beneath the surface of the earth. But in the canyons, where rivers have out through the mountains as a knife cuts through a cake, this stratum is exposed to view and rendered accessible. In Montrose and San Miguel counties (Colo.), and to the northwest, in Utah, deposits of carnotite are found, and, before radium had been thought of, they were mined for uranium.

Total Supply Less Than Two Pounds

nium.
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The total quantity of radium in the state of Colerado has been estimated at a little less than two pounds. It is believed by the bureau of mines, however, that this is an over estimate. The substance has never been separated out in a pure state, but a gram of radium chloride today has a market value of 497,000—at which rate a single ounce would be worth somewhat, over \$2,500.000. Supposing, then, that in Colorado there is a total of only one procurable pound of radium, it sught to sell for \$40,000,000 at the current price.

In all likelihood radium will never be cheaper than it is at present. The carnotite is much more easily treated for its extraction than pitchbiende, and in future we shall held our ores for higher prices than foreign buyers have been paying for them hitherto, while producing ou own supplies of the pectous substance at home. There is no question that the production of radium will increase. The available supply being so limited, with no large resources in sight outside of Colorado, the industry is worth premoting.

is worth promoting.

Buy Up the Claims.

The above mentioned 57 claims in the Paradox valley have been acquired, not by the government, but by a number of wealthy men in New York, Boston and elsewhere, who, purely for philanthropic reasons, are anxious to procure ra-dium in quantity. When they have got it they propose to place it in the hands of the medical profession, especially for dealing with cancer, and, with this idea in view, the requisite clinical ar-rangements have already been made at the Johns Hopkins hospital, in Balti-

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Are you keeping your bowels, liver, and stomach clean, pure and fresh with Cascarcis, or merely forcing a passageway every few days with Salts, Cathartic Pilis, Castor Oil or Purgative Waters?

Ston having a howel wash few Let

tive Waters? Stop having a bowel wash-day. Let Cascareta thoroughly cleanse and regulate the stomach, remove the sour and fermenting food and foul gases, take the excess bills from the liver and carry out of the system all the constiputed waste matter and polsons in the horsels.

pated waste matter and polsons in the bowels.

A Cascaret to-night will make you feel great by morning. They work while you sleep—never gripe, sicken or cause any inconvenience, and cost only 10 cents a bex from your druggist. Millions of men and women take a Cascaret now and then and hever have Hesdache. Billousnezs, Coated Tongue, Indigestion, Sour Stomach or Constipated Bowels. Cascarets belong in every household. Children just love to take them.—Advertisement.

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Within ten minutes after an application of Danderine you exampt find a single trace of dandruff or falling hair and your scalp will not lich, but what will please you most will be after a few weeks use, when you see new hair, fine and downy at first—yes—but really new hair—growing all over the scale.

little Danderine immediately A little Danderine immediately doubles the beauty of your hair. No difference how dull, faded, brittle and scraggy, just moisten a croth with Danderine and carefully draw it through your hair, taking one small strand at a time. The effect is amaring—your hair will be light, fluffy and wavy, and have an appearance of abundance; an incomparable lustre, softness and lururiance.

Get a 25 cent bottle of Knowlton's

ASHINGTON, D. C., NOV. 29.—

Uncle Sam is going into the business of mining for radium. Seven claims yielding rich radium. Seven claims yielding rich radium. Seven claims yielding rich radium become brilliantly immore. The business of mining for radium. Seven claims yielding rich radium bearing ore, already inken up, be worked in the Paradox valley bload, and at the Memorial hospital, in New York city. At the head of the enterprise is Howard & Kelly, of Baltimore.

Ten Yields Small Partiele.

Inamuch as a ton of carnotite will yield a lump of radium hardly larger than a pin head, chemical methods of under the direction of inment experts. The bureau of shas established a mill out there, and leading the substance. Experience has shown that the best way to test the ore, to determine its radium content, is to wrap, in the dark, a photographic plate in two thicknesses of black paper, it is found combined the materials with which ture it is found combined riting from Placerville, and follows the plate is developed and if the ore of ore weighing two or three conces, the whole being thereupon placed in a light tight box. After three or four and days the plate is developed and if the ore contains any radium an image of the substance. Burns Stomach With Radium. Duche Sam is going into the business of mining for radium. Fifty-seven claims yielding rich radium. Fifty-seven claims and concernate the raw material, and experimental between with a view to indiang out new methods whereby this most pectous of all substances it is of landing out new methods whereby this most pectous of all substances of 12 miles, the traveler finds himself at the entrance of this wonderful valley, which is a canyon the recipitation. Fifty of the whole being therappool and if the working the San Miguel river for a distance of 12 miles, the traveler finds himself at the entrance of this wonderful valley, which is a canyon the recipitation of the radium are obliged to climb along them like fifes, making trails as they go.

Look for Yellowish and the radium, Theory oxides of trails are made by you'de so furnium and vanadium, which are always associated with radium. The proper contrasted mineral formations in the role of the rocks, Such stains are made by you'de so furnium and vanadium, which are always associated with radium. The proper point of the rocks, Such stains are made by oxides of uranium and vanadium, which are always associated with radium. The proper point of the rocks, such stains are made by a contrasted contrast the present is caused to a cidental exposure.

Now, it is popularly supposed that ore of radium are mostly found in Europe, and that the precious element is extracted chiefly from yield blooks of the miles of the mostly for well and the precious element is extracted chiefly from yield blooks of the miles of the mostly of the mostl

Gives Three Kinds of Rays.

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Radium gives out three kinds of rays.

"nipha" rays, "beta" rays, and "gamma" rays. The alpha rays may be shut off by paper or giass. Both the alpha and beta rays may be shut off by a shest of lead only one-five-hundredth of an inch thick. But the gamma rays will pass through inches of iron or other metal with scarce any interruption, the extent of their penetrating power depending upon the quantity of radium used. It is the gamma rays filter out in the manner described, that are used in treating cancer.

What are these gamma rays? The answer is that nobody knows. Nobody knows exactly what radium is; it is a mystery, and the source of the force it centains is wholly unknown. Apparently the gamma rays are somewhat like X-rays; but they differ, especially in penetrating power. The X-rays in a Crookes tube become luminous. So likewise do the gamma rays emitted by radium when they impinge upon the mineral "willemite," which is a silicate of sinc.

Finely powdered willemite when Given Three Kinds of Rays.

Finely powdered willemite when

DAILY RECORD

Building Permits.

To Southwestern Iron & Wire works, to build a balcony, 411 South Ochon street; estimated cost, \$100.

To N. E. Carter, to build a porch, Boulevard and Montezuma; estimated cost, \$75.

cost, \$75.

Deeds Filed.

El Paso county, Texas—J. R. Posey and T. L. Brown to A. W. Hamill, sections 4, 9, 16 and 17, block 1, public school land; consideration, \$850; Oct. 25, 1912.

El Paso county, Texas—Mrs. L. A. Hinkle to Mary M. Allison, sections 5, 6, 8, 13 and 15, block 631-2, public school land; consideration, \$5000; June 5, 1913.

North side of Memphis, between Lowell and Russell—J. S. Curties to W. Cooley, lots 5 to 8, inclusive, block 50, Altura Park; consideration, \$10; Nov. 23, 1913. 23, 1913.
Alamo Heights addition—Alamo Heights company to K. C. and E. R. Coppock, lots 15 to 18, inclusive, block "H," Alamo Heights; consideration, \$2200; Nov. 24, 1912. \$2200; Nov. 24, 1913.

Northwest corner of Hueco and Luna

John Sorenson to W. P. Safford,
southerly 84 feet of lots 15 and 16 and
the southerly 84 feet of the casterly
23 feet of lot 14, block 120, East El
Paso; consideration, \$5500; Nov. 23,

Southeast corner of Cloudcroft and Piedras—Hawkins Improvement company to Oscar Yhilg, lots 29 to 32, inclusive, block 96, East El Paso; consideration, 33200; Nov. 3, 1912.

South side of Nashville, between Dyer and Partello—Frank B. and W. G. Hadlock to Dr. W. A. Parvis, lots 19 to 21, inclusive, block 95, Grandview; consideration, \$1075; Aug. 5, 1913.

El Paso Heights addition—El Paso Heights Investment company to Mike Picki, lots 9 and 10, block 99, El Paso Heights; consideration, \$100; Nov. 17, 1912.

Jose E. Jimines and Leonor Her-James L. Mooney and Marie L. Jose M. Corellos and Concha R. Lopez. Raefel Frederico and Lorenza

Juan Garza and Teofila Vargas. Automobiles Licensed, No. 1859—Frank Trow, Lockie hotel; six-passenger Cadillac., No. 1860—Charles Beaty, 711 North

No. 1850—Charles Beaty, 711 North
Stanton street; Yale motorcycle.

Births—Girla.

To Mrs. William Middleton Branch,
2000 Alameda avenue; Nov. 25.

To Mrs. R. L. Price, Old Fort Bliss;
Nov. 22.

To Mrs. F. Garcia Robles, 810 North To Mrs. F. Garcia Robles, 810 North To Mrs. F. Gardia Rooles, 819 North El Paso street; Nov. 24. To Mrs. Romulo Martinez, El Paso; Nov. 26. To Mrs. Juan Florez, Guerro avenue;

Nov. 28.

Births—Bors.

To Mrs. Eli Murray Blanford, St.
Mark's hospital; Nov. 22.

To Mrs. Robert A. Phillips, 604 Texas street; Nov. 28.

To Mrs. P. F. Noonan, twins, 3901

Montana street; Nov. 19.

To Mrs. Frank E. Thayer, St. Mark's hospital; Nov. 26.

To Mrs. Junn Guerrero, Eighth and Chihuahua; Nov. 26.

POINTED PARAGRAPHS.

(Chicago News.)
A successful politician is usually mastrand at a time. The effect is amazing—your hair will be light, fluffy and wavy, and have an appearance of abundance; an incomparable lustre, softness and luxuriance.

Get a 35 cent bottle of Knowlton's Danderine from any drug store or tollet counter, and prove that your hair is an pretty and soft as any—that it has been neglected—or injured by careless treatment—that's all—you surely can have beautiful hair and lots of it if you will just try a little Danderine.—Advertisement.

Chicago News.)

A successful politician is usually machine made.
Shedding tears over spilled milk only adds mere water to it. It is easier to put faith in humanity than it is to keep it there.
Few theatrical stars are brilliant enough to dispense with the spotlight. The pen is mightler than the sword when it comes to getting a fool man into real trouble.

When a married man goes downtown every night it's a sure sign that he faced the parson with the wrong woman.

Burns Stomach With Radium. It was Prof. Becquerel, of Paris, who first suggested the use of radium for curative purposes. Being engaged in experiments with the substance, he carried in his waistcoat a tube containcarried in his waistcoat a tube containing a very small quantity of it. As a result, his stomach was severely burned. This led him to the idea that radium might be employed for attacking cancer. So great is the power stored in radium that its discoverer, Mme. Curie, declared that a single gram of the substance, chemically pure, would destroy the life of every human being in Paris, if separately exposed to its influence.

The Germans report much success with radium in the treatment of rheumatism. Sufferers from that complaint inhale minute quantities of sadium emanations, and drink water which has been charged with the latter. Certain mineral springs are found to contain radium, and it is believed that the curative properties of many of these, such as the famous waters of Bath, may be attributable to the presence in them of gas given off by this marvelous substance.

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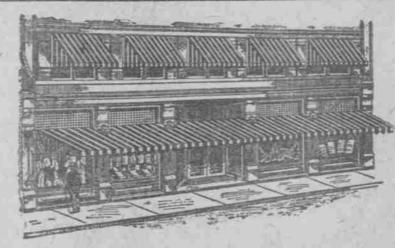
There is no other remedy so truly a help to nature. It relieves the pain and discom-fort caused by the strain on the ligaments, nakes pliant those fibres and muscles which nature is expanding and soothes the inflammation of breast glands.

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and not only banishes all distress in advance, but assures a speedy recovery for the mother. Thus she becomes a healthy woman with all her strength preserved to theroughly enjoy the rearing of her child. Mother's Friend can be had at any drug store at \$1.00 a bottle. Write to Bradfield Regulator Co., 228 Lamar Bldg., Atlanta, Ga., for their free book. Write to-day. It is most instructive.

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in The El Paso Herald Are



To insure the continued possession of good hair two things are necessary-reasonable care and the intelligent use of Newbre's Herpicide.

Hair that receives no attention but the daily combing and an occasional shampoo, cannot be pretty. Dandruff forms on the scalp, the hair becomes dead, brittle, uneven and falls out. There is an entire lack of that life, luster and luxuriance which is imparted to the hair by proper care and Newbro's Herpicide.

By keeping the scalp clean and free from scale Herpicide demonstrates conclusively its power to eradicate the cause of dandruff. Hair that receives proper care and regular applications of this remarkable scalp prophylactic takes on a new beauty. It looks alive, ceases to fall out and has a gloss and sheen that is unmistakable,

There is an air of refinement and good breeding and an appearance of refreshing personal cleanliness about the person who uses Newbro's Herpicide. The odor is exquisite, which makes it a delightful hair dressing.

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Entered at the Postoffice in El Paso, Tex., as Second Class Matter. The Dally Herald is issued six days a week at Ell Paso, Texas. TERMS OF SUBSCRIPTION. Daily Herald, per month 60c; per year, 87.00. Wednesday and Week-Enu immes will be mailed for \$2.00 per year.

The Daily Herald is delivered by carriers in El Paso, East El Paso, Fort Eliss and Towne, Texas, and Cludad Juarez, Maxico, at 65 cents a menth. In ordering a change of address please give the old as well as the new address.

REBALD

Circulation Department2026 Editorial Rooms

TELEPHONE COMPLAINTS EARLY. Subscribers failing to get The Herald

promptly should call at the office or telephone No. 2026 before 6:30 p. m. All complaints will receive prempt attention.

POREIGN BUSINESS OFFICES. The John Budd Co., Brunswick Building, New York: Tribune Building, Chicago, Ill., and Chemical Building,

